

Notice of Allowability	Application No.	Applicant(s)	
	09/541,722	WADT, KARL	
	Examiner	Art Unit	
	William H. Wood	2124	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 22 July 2004.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 03 April 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kyle H. Flindt on 16 September 2004.

The application has been amended as follows:

Claim 1

A responsive system for digital processing comprising:

- ♦ a data transmission unit; and
- ♦ a plurality of data processing units communicating with one another through said data transmission unit via messages wherein each message comprises at least one signal, said data processing units implementing at least one computer program dependent on a respective update status, the system being configured as follows:
 - a) each of said data processing units, during each communication, assigning a revision identity to ~~[[a]]~~ each signal within a message produced by said data processing unit to characterize said respective update status of said each signal;
 - b) one of said data processing units receiving the ~~signal~~ message performing a comparison to determine if the revision identity

characterizing each signal within the received message signal matches a revision identity stored for that signal; and

c) said one of said data processing units receiving the ~~signal~~ at least one message, performing said at least one computer program on ~~the a~~ a signal within the message upon matching the received revision identity with the stored revision identity and otherwise not performing said at least one computer program on the signal.

Claim 5

A method for operation of a responsive system for digital signal processing, which comprises:

- a) providing a data transmission unit;
- b) providing a plurality of data processing units communicating with one another through the data transmission unit via messages wherein each message comprises at least one signal;
- c) said data processing units implementing at least one computer program depending on a respective update status ~~in the data processing units~~;
- d) each of said data processing units, during each communication, assigning a revision identity to each signal within a message produced by said data processing unit to characterize said respective update status of said each signal;
- ~~d) producing a signal with one of the data processing units, and assigning a revision identity to the signal characterizing an update status of the signal, for each communication; and~~

e) carrying out a comparison in one of the data processing units receiving a ~~signal~~the message to determine if the revision identity characterizing each signal within the received message ~~signal~~ matches a revision identity stored for that ~~signal~~[.]; and

f) said one of said data processing units receiving the at least one message,
performing said at least one computer program on a signal within the message
upon matching the received revision identity with the stored revision identity and
otherwise not performing said at least one computer program on the signal.

Claim 6

The method according to claim 5, which further comprises storing the stored revision identity in an analysis module in the data processing unit receiving the ~~signal~~ message and in a database.

Claim 8 (renumbered to claim 12)

The method according to claim 5, which further comprises storing the stored revision identity in an analysis module in the data processing unit receiving the ~~signal~~. message.

Claim 12 (renumbered to claim 8)

The method according to claim 6, which further comprises providing the revision identity characterizing the signal, and the revision identity stored for the signal, with a negative mathematical sign when the signal is removed from the message.

Claim 13 (renumbered to claim 11)

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The method according to claim 7, which further comprises providing the revision identity characterizing the signal, and the revision identity stored for the signal, with a negative mathematical sign when the signal is removed from the message.

Claim 14

The method according to claim 8, which further comprises providing the revision identity characterizing the signal, and the revision stored for the signal, with a negative mathematical sign when the signal is removed from the message.

Allowable Subject Matter

Claims 1-15 are allowed.

The following is an examiner's statement of reasons for allowance: the combined limitations of the independent claims are not taught or fairly suggested by the prior art of record singly or in a properly motivated combination. Claim 1 provides a plurality of data processing units communicating through a data transmission unit via messages comprised of signals, such that each communication assigns a revision identity to each signal and subsequently a comparison of the revision identity of the signal and a revision identity stored for that signal determine performing of a program on the signal as claimed. The prior art of record does not teach singly nor provide a clear motivation for combining the teachings thereof. Additional independent claim 5 provides for limitations substantially similar to those of claim 1. Thus, the independent and all dependent claims are allowable over the prior art of record.

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The prior art of record, **Scholz et al.** and **Nonaka et al.**, provided control system for replacing software, including messages with version/revision information as indicated in previous rejections. However, they failed to disclose at least determining if the revision identity characterizing each signal within the received message matches a revision identity stored for that signal in the context of Applicant's independent claims. Thus, in view of the prior art of record, the claims are allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Wood whose telephone number is (703)305-3305. The examiner can normally be reached 7:30am - 5:00pm Monday thru Thursday and 7:30am - 4:00pm every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703)305-9662. The fax phone numbers for the organization where this application or proceeding is assigned are (703)746-7239 for regular communications and (703)746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

William H. Wood
September 18, 2004



KAKALI CHAKI
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